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# NOTICE OF ALLOWANCE AND FEE(S) DUE

23432 7590 03/21/2008 COOPER & DUNHAM, LLP EXAMINER

GOLDBERG, BRIAN J

ART UNIT PAPER NUMBER

2861 DATE MAILED: 03/21/2008

1185 AVENUE OF THE AMERICAS NEW YORK, NY 10036

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFRMATION NO.

 10/541.467
 06/30/2005
 Hidehito Fukuyasu
 2271/14749
 8934

TITLE OF INVENTION: INK JET PRINTING DEVICE AND IMAGE FORMING APPARATUS

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO           | \$1440        | \$300               | \$0                  | \$1740           | 06/23/2008 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

| INSTRUCTIONS: This<br>appropriate. All further<br>indicated unless correcte<br>maintenance fee notificat   | form should be used to<br>correspondence including<br>a below or directed oth<br>tions.  | or transmitting the<br>ig the Patent, adva-<br>nerwise in Block 1,                                      | nce ord<br>by (a)                                 | E FEE and PUBLICATI<br>lers and notification of m<br>specifying a new corres   | ON FEE (if requinaintenance fees w<br>pondence address;  | red). I<br>ill be<br>and/o                    | Blocks 1 through 5 st<br>mailed to the current<br>(b) indicating a sepa  | nould be completed where<br>correspondence address as<br>rate "FEE ADDRESS" for  |
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| CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)   |  |   |   | Note<br>Fee(<br>pape   | Note: A certificate of mailing can only be used for domestic mailings of the<br>Fee(s) Transmittal. This certificate cannot be used for any other accompanying<br>papers. Each additional paper, such as an assignment or formal drawing, must<br>have its own certificate of mailing or transmission. |   |  |  |
| COOPER & DI<br>1185 AVENUE<br>NEW YORK, N  | OF THE AMERICA   |   |   | I ber  | Cert   | ificate                                       | of Mailing or Trans  |  |
|  |  |   |   |  |  |   |  | (Depositor's name)   |
|  |  |   |   |  |  |   |  | (Signature)  |
|  |  |   |   |  |  |   |  | (Date)   |
| APPLICATION NO.  | FILING DATE  |   | F   | FIRST NAMED INVENTOR   |  | ATTORNEY DOCKET NO.                           |  | CONFIRMATION NO.   |
| 10/541,467   | 06/30/2005   |   |   | Hidehito Fukuyasu  |  |   | 2271/74749   | 8934   |
| TITLE OF INVENTION   | : INK JET PRINTING I   | DEVICE AND IMA  |   |  |  |   |  |  |
| APPLN, TYPE  | SMALL ENTITY   | ISSUE FEE DUI   | Е   | PUBLICATION FEE DUE  | PREV. PAID ISSUE   | FEE   | TOTAL FEE(S) DUE   | DATE DUE   |
| nonprovisional   | NO   | \$1440  |   | \$300  | \$0  |   | \$1740   | 06/23/2008   |
| EXAM   | EXAMINER   |   |   | CLASS-SUBCLASS   |  |   |  |  |
| GOLDBERG   |  | 286I  |   | 347-041000   |  |   |  |  |
| "Fee Address" indi<br>PTO/SB/47; Rev 03-0<br>Number is required.  3. ASSIGNEE NAME A   | ondence address (or Cha<br>3/122) attached.<br>ication (or "Fee Address<br>2 or more recent) attach<br>ND RESIDENCE DATA<br>ess an assignee is ident<br>h in 37 CFR 3.11. Comp | nge of Corresponde  Indication form ed. Use of a Custon TO BE PRINTED                                   | mer<br>O ON Ti<br>ignee d                         | (1) the names of up to<br>or agents OR, alternativ<br>(2) the name of a single<br>registered attorney or a<br>2 registered patent atto<br>listed, no name will be<br>HE PATENT (print or typ<br>lata will appear on the pr<br>a substitute for filing an a<br>(B) RESIDENCE: (CITY   | ely,  firm (having as a gent) and the name news or agents. If i printed.  e)  itent. If an assigners assignment.   | membes of unionan                             | er a 2p to be is 3   | cument has been filed for  |
| Please check the appropri  | iate assignee category or  | categories (will no   | t be pri  | nted on the patent):   | Individual Co  | rporati                                       | on or other private gro  | up entity Government   |
| 4a. The following fee(s) are submitted:    Issue Fee   Publication Fee (No small entity discount permitted)   Advance Order - # of Copies                              |  |   |   | th. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  A check is enclosed.  Payment by credit card. Form PTO-2038 is attached.  The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). |  |   |  |  |
|  | s SMALL ENTITY state   | is. See 37 CFR 1.27   |   | b. Applicant is no long  |  |   |  |  |
| NOTE: The Issue Fee and<br>interest as shown by the r  | d Publication Fee (if req<br>records of the United Sta   | uired) will not be ac<br>tes Patent and Trad  | cepted<br>emark (                                 | from anyone other than the<br>Office.  | ne applicant; a regi   | stered :                                      | attorney or agent; or th   | e assignee or other party in   |
| Authorized Signature   |  |   |   |  | Date   |   |  |  |
| Typed or printed name  |  |   |   |  | Registration N   |   |  |  |
| This collection of inform<br>an application. Confident<br>submitting the completed<br>this form and/or suggesti<br>Box 1450, Alexandria, V<br>Alexandria, Virginia 223 | ation is required by 37 C<br>itality is governed by 35<br>I application form to the<br>ons for reducing this but<br>irginia 22313-1450. DC<br>13-1450.                         | EFR 1.311. The info<br>U.S.C. 122 and 37<br>USPTO. Time will<br>rden, should be sent<br>O NOT SEND FEES | CFR 1<br>CFR 1<br>I vary of<br>t to the<br>S OR C | n is required to obtain or no. 14. This collection is esti<br>depending upon the indiv.<br>Chief Information Office<br>OMPLETED FORMS TO   | etain a benefit by the<br>imated to take 12 m<br>idual case. Any co<br>r, U.S. Patent and<br>D'THIS ADDRESS  | ne pub<br>ninute:<br>mment<br>Frader<br>. SEN | tic which is to file (and<br>to complete, includin<br>s on the amount of tir<br>nark Office, U.S. Deps<br>D TO: Commissioner t | by the USPTO to process)<br>g gathering, preparing, and<br>ne you require to complete<br>utment of Commerce, P.O.<br>for Patents, P.O. Box 1450, |

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|-----------------|-----------------|----------------------|-------------------------|------------------|--|
| 10/541,467      | 06/30/2005      | Hidehito Fukuyasu    | 2271/74749              | 8934             |  |
| 23432           | 7590 03/21/2008 |                      | EXAM                    | IINER            |  |
| COOPER & D      | UNHAM, LLP      | GOLDBERG, BRIAN J    |                         |                  |  |
|                 | OF THE AMERICAS | ART UNIT             | PAPER NUMBER            |                  |  |
| NEW YORK, N     | Y 10036         |                      | 2861                    |                  |  |
|                 |                 |                      | DATE MAILED: 03/21/2008 |                  |  |

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 399 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 399 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

| Application No.   | Applicant(s)       |  |  |  |  |
|-------------------|--------------------|--|--|--|--|
| 10/541,467        | FUKUYASU, HIDEHITO |  |  |  |  |
| Examiner          | Art Unit           |  |  |  |  |
| Brian J. Goldberg | 2861               |  |  |  |  |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to the amendment filed 1/3/08.
- The allowed claim(s) is/are 1-5.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - b) ☐ Some\* c) ☐ None of the:
    - 1. A Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No.
    - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) hereto or 2) to Paper No./Mail Date
  - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. 

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

- 1. | Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08). Paper No./Mail Date
- 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7. T Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- Other .

Page 2

Application/Control Number: 10/541,467

Art Unit: 2861

#### DETAILED ACTION

## Allowable Subject Matter

Claims 1-5 are allowed.

2. The following is an examiner's statement of reasons for allowance: The prior art does not disclose or suggest "the control unit is configured so that a rear-end portion of the discharge nozzles of the kth printing procedure in an array direction after printing of the printing region and a front-end portion of the discharge nozzles of the kth printing procedure in the array direction before printing of the non-printed region overlap each other with respect to the sub-scanning direction, and invalid nozzles that do not discharge the ink drops are determined from among arbitrary ones of the discharge nozzles in the overlap between said front-end portion and said rear-end portion in the array direction of the discharge nozzles" in combination with the remaining claim elements set forth in claims 1 and 5.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian J. Goldberg whose telephone number is (571)272-2728. The examiner can normally be reached on Monday through Friday, 9AM-5PM FST.

Art Unit: 2861

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Luu can be reached on 571-272-7663. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/LUU MATTHEW/ Supervisory Patent Examiner, Art Unit 2861 /Brian J. Goldberg/ Examiner Art Unit 2861